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Illinois
Environmental
Protection Agency

Division of Public Water Supplies
2200 Churchill Road
Springfield, Illinois 62706

28137002

Groundwater Quality Protection Program

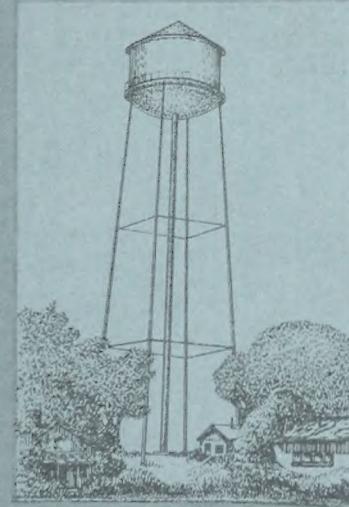
S.E. Joliet Sanitary District
FACILITY NUMBER 1977490
WELL SITE SURVEY REPORT

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IEPA/PWS/92-196

GROUNDWATER QUALITY PROTECTION PROGRAM:

S.E. Joliet Sanitary District
FACILITY NUMBER 1977490
WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

Published by:

Illinois Environmental Protection Agency
Springfield, Illinois

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<https://archive.org/details/sejolietssanitary00unse>

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J021

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TABLE OF CONTENTS

- I. Introduction
- II. Facility description and Geologic Profile of Well Sites
- III. Groundwater Sampling and Monitoring History
- IV. Well Site Survey Methods and Procedures
- V. Summary
- VI. Recommendations
- VII. Technical Appendices
 - A. Topographic Map Displaying S.E. Joliet Sanitary District Well Locations
 - B. Aerial Photographic Map
 - 1. S.E. Joliet Sanitary District Well #1 (IEPA #20396) Summary Description and Unit Inventory
 - C. Facility Wells Report
 - D. Detailed Sampling/Monitoring Results

INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

S.E. Joliet Sanitary District obtains its water from one bedrock well. This well provides an average of 218,000 gallons per day to 533 services. See Table I for a description of the well. The surficial geologic susceptibility rating for the well is C1. The bedrock aquifer is overlain by sediments of variable permeability. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A complete description and geologic profile is found in the Facility Wells Report (Appendix C).

TABLE 1

	Minimum Setback (ft.)	Maximum Setback (ft.)		Capacity (gpm)	Specific Capacity (gpm/ft.)		Well Treatment	Well Depth (ft.)	Well Logs Avail.
			Status	(MGD)			Aquifer		
Well 1 (20396)	400	No	A	325 0.468			Chl,Fl, Polyphos	Shallow Bedrock	248 *

A-Active

*-Well logs not available at this time

GROUNDWATER SAMPLING/MONITORING HISTORY

S.E. Joliet Sanitary District Well #1 was sampled on June 26, 1985 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/aromatic compounds (VOC/VOA). VOC/VOA analyses did not detect quantifiable levels of any organic compounds. IOC analyses indicate that parameters are consistent with other shallow bedrock aquifers in Illinois (Appendix D).

SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings:

The S.E. Joliet Sanitary District well site survey was conducted on February 12, 1992 by Wade Boring from the Agency's Springfield Office. The following describes the results and findings for the S.E. Joliet Sanitary District public water well.

S.E. Joliet Sanitary District Well #1 (IEPA #20396)

The survey area is urban. The area is predominantly residential with some commercial. One potential secondary source of contamination is located within the minimum setback zone of Well #1; Checker Oil (map code 1) 250 feet NW.

SUMMARY

The well site survey conducted indicates that there is one potential sources/site that could pose a hazard to groundwater utilized by the S.E. Joliet Sanitary District public water well.

. One site with below ground fuel storage; Checker Oil.

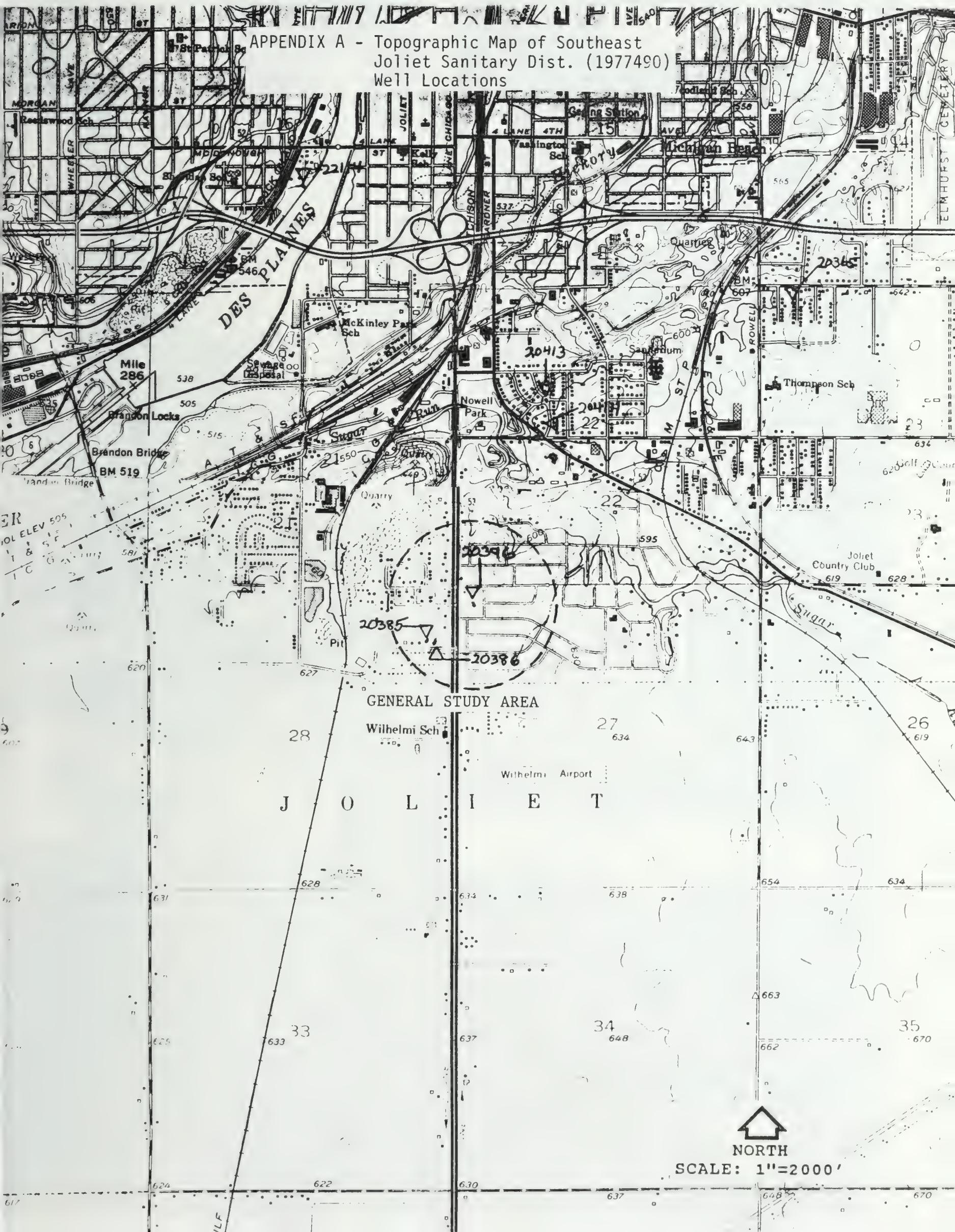
The Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.

RECOMMENDATIONS

The Agency strongly urges S.E. Joliet Sanitary District to consider establishing maximum setback zones for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish a maximum setback zone. Technical assistance is available from the Agency and the Illinois State Water Survey.

TECHNICAL APPENDICES

APPENDIX A - Topographic Map of Southeast
Joliet Sanitary Dist. (1977490)
Well Locations



APPENDIX B
Aerial Photography

QU

E. JOLIET SANITARY DISTRICT
1977490

MODERN MHP
1975265

1"=400'



QUARRY

53

ZARLEY RD

ZURICH RD.

S.E. JOLIET SANITARY DISTRICT
1977490
MODERN MHP
1975265

1" = 400'

20385 20386

1975265

20396

1977490



APENDIX B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE-S.E. Joliet Sanitary District WELL #1 (IEPA #20396)

SURVEYOR: W. Boring
SURVEY DATE: 2/12/92
ADDRESS: Charles Cain
1607 Moore Ave
PO Box 3309
Joliet, IL 60434

AGENCY WELL NUMBER: 20396
WELL NAME & DESCRIPTION: Well #1
TAP: 01
FACILITY NO. & NAME: 1977490
FACILITY PHONE CONTACT:
LOCATION:
TWP, RNG, SECTION, 10 ACRE PLOT: 35N,10E,27,8H
DISTANCE FROM CORNER SECTION: 319S,306E
QUAD SHEET CODE & NAME: 58A-Elwood
MINIMUM SETBACK: 400 ft.
MAXIMUM SETBACK:
GEOLOGIC SUSCEPTIBILITY RATING: C1-bedrock overlain by
variable permeability
sediments

AGE OF WELL: 1960
WELL DEPTH: 248 ft.
DEPTH OF CASING: 56 ft.
AQUIFER CODE: 5656-Shallow Bedrock
MULTIPLE AQUIFER (Y, N): N
SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA:
The survey area is urban.
The area is predominantly
residential with some
commercial.

INTERVIEW(S):
NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B1: INVENTORY AND SYNOPSIS OF UNITS - S.E. Joliet
Sanitary District WELL #1 (IEPA #20396)

<u>CLASSIFICATION KEY</u>	
<u>MINIMUM ZONE</u>	<u>OUTSIDE MINIMUM ZONE</u>
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 20396-01-PS

NAME & ADDRESS OF UNIT OWNER: Checker Oil, 1600 S. Chicago,
Joliet, IL 60433 312/355-0600

DESCRIPTION AND COMMENTS: service station with greater than 500
gallons below fuel storage, ISFM #2-014563

PRE OR POST (Y, N): Y

DISTANCE AND DIRECTION: 250 ft. NW

APPENDIX C

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
FACILITY WELLS REPORT

REPORT: PWS-223
MODULE: PWS-223

PAGE: 10
DATE: 01/20/93

FACILITY: 1917490 - SOUTHEAST JOLIET SN03

OWNER -

CHARLES RAIN

1607 MOORE AVE.

PO BOX 3339

JOLIET

WELL: 20356 - #1 NEXT TO TOWER E SIDE OF RT 53

LATITUDE: N41 29 36.0

LONGITUDE: W088 04 45.0
STATUS: ACTIVE
TWP: 35N
RNG: 10E
SEC: 27
PLOT: 8H

SUSCEPTIBILITY - LAND BURIAL: C1
ALTITUDE (FT): 0.00
INTERVAL 1 - TYPE: - N/A
INTERVAL 2 - TYPE: - N/A
INTERVAL 2 - TYPE: - N/A
AQUIFERS: SILURIAN DOLOMITE

ALTITUDE (FT): 0.00
ALTITUDE METHOD CODE: - UNKNOWN

SCREEN MATL: - NOT APPLICABLE
SCREEN MATL: - NOT APPLICABLE
SCREEN MATL: - NOT APPLICABLE
DEPTH TO TOP (FT): 0.00
DEPTH TO TOP (FT): 0.00
DEPTH TO TOP (FT): 0.00
MINIMUM SETBACK(FT): 0400 ---
DEPTH TO BOT (FT): 0.00
DEPTH TO BOT (FT): 0.00
DEPTH TO BOT (FT): 0.00
SILURIAN SYSTEM

SUSCEPTIBILITY CODES
LAND BURIAL: C1 = PERMEABLE BEDROCK WITHIN 20 TO 50 FT OF SURFACE. OVERLAIN BY TILL OR OTHER FINE-GRAINED MATERIAL.

APPENDIX D

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

REPORT: PAGE 242
MODULE: FORM 242

PAGE: 74
DATE: 01/20/93

FACILITY: 1977490 SOUTHEAST JOLIET SNDST
TAP: 31 WELL 1 NEAR ELEVATED TANK
RAW SRC: 20335 M. NEXT TO LOWER E. SIDE OF RT 53

STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
STATUS: A
STATUS: A

SAMPLE NO: 311071003 LOCATION: SOUTHEAST JOLIET SNDST
SMPL TYPE: RAW COLLECTOR: STANLEY MCCLAIN
SMPL PURP: 1-ROUTINE COMMENTS:
SMPL PROG: C-CHEMICAL OBSRVATNS:

ANALYSIS: SSLT -----
ID NO: -----
DESCRIPTION: -----

ITEM	UNITS	RESULT	DRINK WTR	RAW WTR	LEVEL
001	00403	PH LABORATORY UNITS			7.400
001	00095	CONDUCTIVITY(EC)-LAB CUMMOS/CM @ 25 C	UM/CM	1004.000	
001	70300	RESIDUE, TOTAL FILTERABLE 3180 C, MG/L	MG/L	600.000	
001	00410	ALKALINITY, TOTAL MG/L AS CACO3	MG/L	378.000	
001	00930	HARDNESS, ECTA MG/L AS CACO3	MG/L	511.000	
001	00951	FLUORIDE, TOTAL MG/L AS F	MG/L	0.240	4.000
001	00940	CHLORIDE, TOTAL MG/L AS CL	MG/L	39.000	
001	00945	SULFATE, TOTAL MG/L AS SO4	MG/L	177.000	
001	002630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.020	10.000
001	00610	NITROGEN, AMMONIA TOTAL MG/L AS N	MG/L	0.300	
001	00956	SILICA, TOTAL MG/L AS SiO2	MG/L	15.000	
001	00720	CYANIDE, TOTAL MG/L AS CN	MG/L	0.005	< 0.200
001	01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS	UG/L	1.600	50.000
001	01051	LEAD, TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	< 50.000
001	011900	MERCURY, TOTAL UG/L AS HG	UG/L	0.050	< 2.000
001	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE	UG/L	1.000	< 10.000
001	00916	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	120.000	
002	00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	59.000	
002	00929	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	32.000	
004	00927	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	3.800	
005	01105	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	UG/L	150.000	<
002	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	33.000	1000.000
002	01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	220.000	
008	01912	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	1.000	<
009	01027	CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP	UG/L	5.000	< 10.000
010	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP	UG/L	5.000	< 50.000
010	01042	COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP	UG/L	12.000	5000.000
011	01037	COBALT, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP	UG/L	5.000	<
012	01045	IRON, TOTAL RECOVERABLE UG/L AS Fe ANAL BY ICP	UG/L	439.000	1000.000
013	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP	UG/L	15.000	150.000
014	01056	NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP	UG/L	15.000	<
015	01057	SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP	UG/L	5.000	< 50.000
016	01077	STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP	UG/L	741.000	
017	01082	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	UG/L	5.000	<
018	01087	ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP	UG/L	50.000	5000.000
019	01092	HARDNESS, CALC - MG/L	MG/L	544.000	
020	82394				

SAMPLE NO: 2002600 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEP A SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHER COMMENTS:

COLL DATE: 06/26/85 DELIVERED BY:
LAB RCV'D: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

REPORT: PWSUP046
MODULE: PWSUP025

FACILITY: 1777495 SOUTHERN
SAMPLE #: 1777495 SOUTHERN

JCL117 SNDST

ASSRATNS:

SMP PERIOD: 06/05 FUND CODE:

*** CONTINUED ***

PAGE: 75
DATE: 01/20/93

ANALYSIS ID	RSLT	DESCRIPTION	RET-----		STANDARDS-----		TRIGGER LEVEL	
			UNITS	RESULT	DRINK WTR	RAW WTR	FUND CODE:	
00000001	0.021	0.02610	PPM	AMMONIA TOTAL MG/L AS N	0.300			
00000001	0.021	0.0630	PPM	RATE & NITRITE TOTAL MG/L AS N	0.100	<	10.000	
00000001	0.003	0.9655	PPM	PHOSPHORUS, TOTAL MG/L AS P	0.010	<		
00000001	0.004	0.2720	PPM	YANIDE, TOTAL MG/L AS CH	0.010	<	0.200	
00000001	0.005	0.2916	PPM	ALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	112.000			
00000001	0.006	0.2927	PPM	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	58.000			
00000001	0.007	0.0929	PPM	ODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	26.000			
00000001	0.003	0.0237	PPM	KOTTASIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	3.860			
00000001	0.003	0.0940	PPM	CHLORIDE, TOTAL MG/L AS CL	28.000			
00000011	C10	0.0045	PPM	SULFATE, TOTAL MG/L AS SO4	174.000			
00000001	0.014	0.0951	PPM	FLUORIDE, TOTAL MG/L AS F	0.200		4.000	
00000001	C12	0.0255	PPM	SILICA, TOTAL MG/L AS SiO2	13.000			
00000001	C13	0.0102	PPM	ARSENIC, TOTAL RECOVERABLE ug/L AS AS	2.000		50.000	
00000001	0.14	0.0097	PPM	ZARIUM, TOTAL RECOVERABLE ug/L AS BA ANAL BY ICP	37.000		1000.000	
00000001	0.15	0.0102	PPM	BERYLLIUM, TOTAL RECOVERABLE ug/L AS BE ANAL BY ICP	0.500	<		
00000001	0.16	0.0122	PPM	BORON, TOTAL RECOVERABLE ug/L AS B ANAL BY ICP	206.000			
00000001	0.17	0.0127	PPM	CADMIUM, TOTAL RECOVERABLE ug/L AS CD ANAL BY ICB	3.000	<	10.000	
00000001	0.18	0.14	PPM	CHROMIUM, TOTAL RECOVERABLE ug/L AS CDR ANAL BY ICB	5.000	<	50.000	
00000001	0.19	0.137	PPM	COBALT, TOTAL RECOVERABLE ug/L AS CO ANAL BY ICP	5.000	<		
00000001	0.20	0.042	PPM	COPPER, TOTAL RECOVERABLE ug/L AS CU ANAL BY ICP	5.000	<	5000.000	
00000001	0.21	0.045	PPM	IRON, TOTAL RECOVERABLE ug/L AS FEANAL BY ICP	457.000		1000.000	
00000001	0.22	0.1051	PPM	LEAD, TOTAL RECOVERABLE ug/L AS PB	5.000	<	50.000	
00000001	0.23	0.1955	PPM	MANGANESE, TOTAL RECOVERABLE ug/L AS MN ANAL BY ICP	17.000		150.000	
00000001	0.24	0.1057	PPM	NICKEL, TOTAL RECOVERABLE ug/L AS NI ANAL BY ICP	5.000	<		
00000001	C25	0.0107	PPM	SILVER, TOTAL RECOVERABLE ug/L AS AG ANAL BY ICP	3.000	<	50.000	
00000001	0.26	0.0108	PPM	STRONTIUM, TOTAL RECOVERABLE ug/L AS SR ANAL BY ICP	759.000			
00000001	0.27	0.01937	PPM	VANADIUM, TOTAL RECOVERABLE ug/L AS V ANAL BY ICP	5.000	<		
00000001	0.28	0.01932	PPM	ZINC, TOTAL RECOVERABLE ug/L AS ZN ANAL BY ICP	50.000	<	5000.000	
00000001	0.29	0.1105	PPM	ALUMINUM, TOTAL RECOVERABLE ug/L AS AL ANAL BY ICP	50.000	<		
00000001	0.30	0.0147	PPM	SELENIUM, TOTAL RECOVERABLE ug/L AS SE	1.000	<	10.000	
00000001	0.31	0.2730	PPM	PHENOLS, TOTAL RECOVERABLE ug/L	5.000	<		
00000001	0.32	0.2300	PPM	RESIDUE, TOTAL FILTERABLE 3180 C, MG/L	965.000			
00000001	0.33	0.1300	PPM	MERCURY, TOTAL ug/L AS HG	0.010	<	2.000	
00000001	0.34	0.0010	PPM	WATER TEMPERATURE DEG C	13.500			
00000001	C35	0.0059	PPM	FLOW (PUMPING) RATE GAL/MIN	350.000			
00000001	C36	0.0070	PPM	OXIDATION-REDUCTION POTENTIAL (EHD) MILLIVOLTS	78.000			
00000001	C37	0.0095	PPM	CONDUCTIVITY (EC)-LAG (UMHOS/CM @ 25 C)	995.000			
00000001	C38	0.0400	PPM	PH PH UNITS	6.800			
00000001	0.33	0.0410	PPM	ALKALINITY, TOTAL MG/L AS CACO3	366.000			
00000001	0.40	0.2204	PPM	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	150.000			
00000001	0.41	0.2019	PPM	DEPTH FROM LAND SURFACE TO WATER SURFACE	55.000			
00000001	C42	0.0410	PPM		369.000			

SAMPLE NO: 1034819
SAMP TYPE: RAW

LOCATION: WELL #1
COLLECTOR: MELVIN SPLETTNER

COLL DATE: 02/08/82
LAB RCVD: 03/10/82
RECEIVED BY:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

REPORT: PW5420C42
MODULE: PW541125

PAGE: 76
DATE: 01/20/93

FACILITY: 101749: SCU THE EAST JOLIET S/DST

SMP PURP: 1-221749: COMMENTS:
SMP PRG: 1-GM INORG OBSRVATNS:

*** CONTINUED ***

LAB COMPL: LAB SUPERVISOR:
SMP PERIOD: 02/82 FUND CODE:

ANALYSIS ID	RESULT NO	DESCRIPTION	STANDARDS			TRIGGER LEVEL
			UNITS	RESULT	DRINK WTR	
00035	CONDUCTIVITY(EC)-LAB(CUMHOS/CH 3 25 C		1000.000			
00403	PH LABORATORY UNITS		7.100			
00410	ALKALINITY, TOTAL MG/L AS CACO3		366.000			
00610	NITROGEN, AMMONIA TOTAL MG/L AS N		0.190			
00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
00720	CYANIDE, TOTAL MG/L AS CN		0.005 <	0.200		
00900	HARDNESS, ECTA MG/L AS CACO3		508.000			
00915	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		118.000			
00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		58.400			
00929	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		25.000			
00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		5.100			
00940	CHLORIDE, TOTAL MG/L AS CL		21.000			
00945	SULFATE, TOTAL MG/L AS SO4		174.000			
00951	FLUORIDE, TOTAL MG/L AS F		0.240	4.000		
02356	SILICA, TOTAL MG/L AS S102		14.000			
01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS		1.000	50.000		
01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		50.000	1000.000		
01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		210.000			
01027	CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		6.000 <	50.000		
01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		4.000	5000.000		
01045	IRON, TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		480.000	1000.000		
01051	LEAD, TOTAL RECOVERABLE UG/L AS PB ANAL BY ICP		5.000 <	50.000		
01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		18.000	150.000		
01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000 <			
01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		780.000			
01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		4.000 <			
01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000 <	5000.000		
01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP		1.000 <	10.000		
70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L		620.000			
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		600.000			
71900	MERCURY, TOTAL UG/L AS HG		0.050 <	2.000		

SAMPLE NO: 086695870 LOCATION: JOLIET/WELLHOUSE 1
SMP TYPE: RAW COLLECTOR: STANLEY MCCLAIN
SMP PURP: 3-VARIANCE COMMENTS: VOC
SMP DSC: V-VOC OBSRVATNS: 2 VOC
COLL DATE: 08/18/83 DELIVERED BY: MAIL
LAB RCVD: 08/22/88 RECEIVED BY: MSH
LAB COMPL: 08/31/88 LAB SUPERVISOR: JTH
SMP PERIOD: 08/88 FUND CODE: PW30

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

REPORT: Page 26
MODULE: Form 422

PAGE: 77
DATE: 01/20/93

FACILITY: 1377430 SOUTH EAST JELLET SHOT

*** CONTINUED ***

-----STANDARDS----- TRIGGER
----- DRINK WTR RAW WTR LEVEL

UNITS RESULT

ANALYSIS	RESULT	STRENGTH	DESCRIPTION	UNITS	RESULT	UNITS	RESULT
431WV00	C01	32126	CHLOROFORM UG/L GC/MS	UG/L	1.000	<	
431WV00	C04	32101	1,3-DIMOCYL CROMETHANE UG/L CG/MS	UG/L	1.000	<	
431WV00	C03	32105	DI-BROMOCHL CROMETHANE UG/L GC/MS	UG/L	1.000	<	
431WV00	C04	32104	DI-BROMOFORM UG/L CG/MS	UG/L	1.000	<	
431WV00	C05	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	5.000
431WV00	C06	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000
431WV00	C07	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	
431WV00	C07	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	100.000
431WV00	C09	34531	1,1-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000
431WV00	C10	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000
431WV00	C11	32102	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000	<	5.000
431WV00	C12	39150	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000
431WV00	C13	34775	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	5.000
431WV00	C14	34301	CHLOROPHENZENE UG/L	UG/L	1.000	<	100.000
431WV00	C15	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	5.000
431WV00	C16	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431WV00	C17	78131	TOLUENE UG/L	UG/L	1.000	<	1000.000
431WV00	C18	73113	ETHYLBENZENE UG/L	UG/L	1.000	<	700.000
431WV00	C19	81551	XYLENE UG/L	UG/L	1.000	<	10000.000

SAMPLE NO:	C86330000	LOCATION:	BLANK W/6 3199	COLLECTOR:	STANLEY MCCLAIN	DELIVERED BY:	MAIL
SAMPL TYPE:	RAW	COMMENTS:	VOC'S	LAB RCVD:	03/08/93	RECEIVED BY:	D V
SAMPL PURP:	2-VARIANCE	OBSEVATNS:	2 BLANKS	LAB COMPL:	04/07/93	LAB SUPERVISOR:	JTH
SAMPL DPTG:	V-VEC	SMPL PERIOD:	03/38	FUND CODE:	PW30		

-----STANDARDS----- TRIGGER
----- DRINK WTR RAW WTR LEVEL

UNITS RESULT

ANALYSIS	RESULT	STRENGTH	DESCRIPTION	UNITS	RESULT	UNITS	RESULT
431WV00	C01	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<	
431WV00	C02	32101	1,3-DIMOCYL CROMETHANE UG/L CG/MS	UG/L	1.000	<	
431WV00	C03	32105	DI-BROMOCHL CROMETHANE UG/L GC/MS	UG/L	1.000	<	
431WV00	C04	32104	DI-BROMOFORM UG/L CG/MS	UG/L	1.000	<	
431WV00	C05	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	5.000
431WV00	C05	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000
431WV00	C07	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	
431WV00	C09	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	100.000
431WV00	C09	34521	1,1,1-TRICHLOROETHANE UG/L	UG/L	1.000	<	5.000
431WV00	C10	34506	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000	<	200.000
431WV00	C11	32102	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000
431WV00	C12	39132	CHLOROPHENZENE UG/L	UG/L	1.000	<	5.000
431WV00	C13	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	1000.000
431WV00	C14	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	
431WV00	C15	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	5.000
431WV00	C16	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431WV00	C17	78131	TOLUENE UG/L	UG/L	1.000	<	1000.000
431WV00	C18	79113	ETHYLBENZENE UG/L	UG/L	1.000	<	700.000
431WV00	C19	81551	XYLENE UG/L	UG/L	1.000	<	10000.000

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

PAGE: 78
DATE: 01/20/93

FACILITY: 191742: SOUTHEAST JOLIET SNST

*** CONTINUED ***

SAMPLE #: D9632:9 LOCATION: WELL 1 NEXT TO TOWER
SMPL TYPE: RAW COLLECTOR: MCCLAIN
SMPL PURP: 9-VARIANCE COMMENTS:
SMPL PRG #: V-VOC OBSRVATNS:

COLL DATE: 03/04/88 DELIVERED BY:
LAB RCVD: 03/08/88 RECEIVED BY:
LAB COMPL: LAB SUPERVISOR:
SMPL PERIOD: 03/88 FUND CODE: PW30

ANALYSIS	RSLT	STORET		RESULT	STANDARDS		TRIGGER
		ID	NO		UNITS	DRINK WTR	
		32101		BROMOICHLOROMETHANE	UG/L GC/MS	1.000 <	
10		32102		CARBON TETRACHLORIDE	UG/L GC/MS	1.000 <	5.000
13		32104		BROMOFORM	UG/L GC/MS	1.000 <	
14		32105		DIBROMOICHLOROMETHANE	UG/L GC/MS	1.000 <	
15		32106		CHLOROFORM	UG/L GC/MS	1.000 <	
16		34301		CHLOROBENZENE	UG/L	1.000 <	100.000
17		34422		METHYLENE CHLORIDE	UG/L	1.000 <	5.000
18		34475		TETRACHLOROETHYLENE	UG/L GC/MS	1.000 <	5.000
19		34496		1,1-DICHLOROETHANE	UG/L GC/MS	1.000 <	
20		34501		1,1-DICHLOROETHYLENE	UG/L GC/MS	1.000 <	7.000
21		34506		1,1,1-TRICHLOROETHANE	UG/L GC/MS	1.000 <	200.000
22		34531		1,2-DICHLOROETHANE	UG/L	1.000 <	5.000
23		34546		TRANS-1,2-DICHLOROETHYLENE	UG/L GC/MS	1.000 <	100.000
24		34716		DICHLOROBENZENE	UG/L	1.000 <	
25		39180		TRICHLOROETHYLENE	UG/L	1.000 <	5.000
26		78113		ETHYL BENZENE	UG/L	1.000 <	700.000
27		78124		BENZENE	UG/L	1.000 <	5.000
28		78131		TOLUENE	UG/L	1.000 <	1000.000
29		81551		XYLENE	UG/L	1.000 <	10000.000

ANALYSIS	RSLT	STORET		RESULT	STANDARDS		TRIGGER
		ID	NO		UNITS	DRINK WTR	
31		076072900		LOCATION: SOUTHEAST JOLIET SNST/1607 MOORE/WELL 1	COLL DATE: 11/07/87	DELIVERED BY: MAIL	
32				COLLECTOR: S MCCLAIR	LAB RCVD: 11/10/87	RECEIVED BY: O V	
33				COMMENTS: VOC'S	LAB COMPL: 12/15/87	LAB SUPERVISOR: JTH	
34				OBSRVATNS: 2 VOC	SMPL PERIOD: 11/87	FUND CODE: PW30	

ANALYSIS	RSLT	STORET		RESULT	STANDARDS		TRIGGER
		ID	NO		UNITS	DRINK WTR	
35		4314	22	901	CHLOROFORM	UG/L GC/MS	UG/L 1.000 <
36		4314	00	902	BROMOICHLOROMETHANE	UG/L CG/MS	UG/L 1.000 <
37		4314	00	903	DIBROMOICHLOROMETHANE	UG/L CG/MS	UG/L 1.000 <
38		4314	00	904	BROMOFORM	UG/L CG/MS	UG/L 1.000 <
39		4314	00	905	METHYLENE CHLORIDE	UG/L	UG/L 1.000 <
40		4314	00	906	1,1-DICHLOROETHYLENE	UG/L GC/MS	UG/L 1.000 <
41		4314	00	907	1,1-DICHLOROETHANE	UG/L GC/MS	UG/L 1.000 <
42		4314	00	908	TRANS-1,2-DICHLOROETHYLENE	UG/L GC/MS	UG/L 1.000 <
43		4314	00	77279	1,2-DICHLOROETHANE	UG/L	UG/L 1.000 <
44		4314	00	910	1,1,1-TRICHLOROETHANE	UG/L GC/MS	UG/L 1.000 <
45		4314	00	911	CARBON TETRACHLORIDE	UG/L CG/MS	UG/L 1.000 <
46		4314	00	912	TRICHLOROETHYLENE	UG/L	UG/L 1.000 <
47		4314	00	913	TETRACHLOROETHYLENE	UG/L	UG/L 1.000 <
48		4314	00	914	CHLOROBENZENE	UG/L	UG/L 1.000 <

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

REPORT: PH34P049
MODULE: P45M002

PAGE: 79
DATE: 01/20/93

FACILITY: 1377436 SOUTHEAST JOLIET SHOT

*** CONTINUED ***

431A	60	615	34715	DICHLOROBENZENE	UG/L
431A	59	616	79124	BENZENE	UG/L
431A	58	617	73131	TOLUENE	UG/L
431A	58	618	78113	ETHYLBENZENE	UG/L
431A	58	619	81551	XYLENE	UG/L

SAMPLE NO: ZOC2739
SMPL TYPE: RAW
SMPL PUPP: 2-SPEC/OTHER
SMPL DPPG: V-VJC

LOCATION: WELL
COLLECTOR: IEPA SMPL COLLECTOR
COMMENTS:
OBSERVATNS:

ANALYSIS ID	RESULT NO	STORED		STANDARDS		TRIGGER	
		UNITS	RESULT	DRINK WTR	RAW WTR	LEVEL	LEVEL
0000001	901	32101	BROMODICHLOROMETHANE	UG/L	GC/MS	1.000	<
0000001	902	32102	CARBON TETRACHLORIDE	UG/L	GC/MS	1.000	<
0000001	603	32103	1,2-DICHLOROETHANE	UG/L		1.000	<
0000001	604	32104	BROMOFORM	UG/L	GC/MS	1.000	<
0000001	595	32105	BROMODICHLOROMETHANE	UG/L	GC/MS	1.000	<
0000001	606	32106	CHLOROFORM	UG/L	GC/MS	1.000	<
0000001	607	34010	TOLUENE	UG/L		1.000	<
0000001	608	34030	BENZENE	UG/L		1.000	<
0000001	509	34321	CHLOROBENZENE	UG/L		1.000	<
0000001	610	34371	ETHYLBENZENE	UG/L		1.000	<
0000001	511	34423	METHYLENE CHLORIDE	UG/L		1.000	<
0000001	612	34475	TETRACHLOROETHYLENE	UG/L	GC/MS	1.000	<
0000001	613	34496	1,1-DICHLOROETHANE	UG/L	GC/MS	1.000	<
0000001	614	34501	1,1-DICHLOROETHYLENE	UG/L	GC/MS	1.000	<
0000001	615	34506	1,1,1-TRICHLOROETHANE	UG/L	GC/MS	1.000	<
0000001	616	39190	TRICHLOROETHYLENE	UG/L		1.000	<
0000001	617	00010	WATER TEMPERATURE	DEG C		13.500	
0000001	618	00059	FLOW (PUMPING) RATE	GAL/MIN		350.000	
0000001	619	00090	OXIDATION-REDUCTION	POTENTIAL (Eh)	MIL-IVOLTS	78.000-	
0000001	620	00295	CONDUCTIVITY (EC)	-LAB(CUMMHS/CM)	25 C	995.000	
0000001	621	00400	PH	PH UNITS		6.800	
0000001	622	00410	ALKALINITY, TOTAL	MG/L	AS CACO3	366.000	
0000001	623	72004	FLOW (PUMPING) TIME	PRIOR TO	SAMPLING MIN	150.000	
0000001	624	72019	DEPTH FROM LAND	SURFACE TO	WATER SURFACE	55.000	
0000001	625	90410				369.000	

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